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ABSTRACT

A method and device for delivering a pulse waveform to a target site of a patient that includes an energy storage device storing electrical energy, and a plurality of electrodes electrically coupled to the energy storage device. Control circuitry, coupled to a plurality of switching elements coupled to the plurality of electrodes, selectively switches the plurality of switching elements between a first state and a second state to direct discharge of the stored energy to be simultaneously output at selected electrodes of the plurality of electrodes to generate discrete sequential resultant output pulses across multiple pathways, the discrete sequential resultant output pulses generating a multi-directional waveform at the target site.